

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 59073854
PUBLICATION DATE : 26-04-84

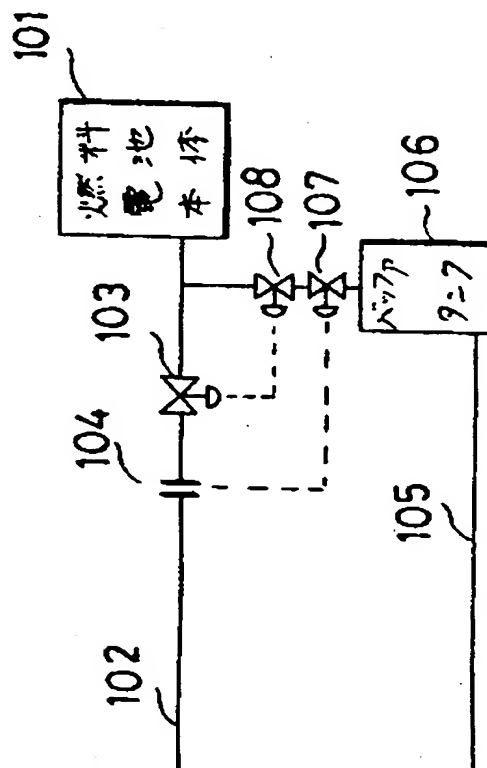
APPLICATION DATE : 20-10-82
APPLICATION NUMBER : 57184303

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INT.CL. : H01M 8/04

TITLE : FUEL CELL APPARATUS



ABSTRACT : **PURPOSE:** To make possible supply of nitrogen gas, fuel, or oxidizing agent to a fuel cell main body when a system is urgently stopped or load is suddenly increased by installing a buffer tank which can store fuel, oxidizing agent, or nitrogen gas in the secondary piping near the fuel cell main body.

CONSTITUTION: When operation of a fuel cell is urgently stopped, a shutdown valve 103 is closed. In connection with valve closing, a ON-OFF valve 108 is opened, and nitrogen gas in a buffer tank 106 is supplied in a fuel cell main body 101 through the secondary piping line 105. By supply of nitrogen gas, reforming gas of natural gas and oxidizing gas are purged and operation is quickly stopped. By installing the buffer tank 106 which stores nitrogen gas near the fuel cell main body 101, nitrogen gas can be quickly supplied to the fuel cell main body 101 in case of emergency to stop operation.

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